

Information and communication Technology - Answers

Grade 11 - 2013

Paper I

1.)	1	11.)	3	21.)	1	31.)	4
2.)	4	12.)	2	22.)	1	32.)	2
3.)	3	13.)	4	23.)	3	33.)	3
4.)	3	14.)	3	24.)	1	34.)	3 4 4
5.)	3	15.)	4	25.)	4	35.)	2
6.)	2	16.)	3	26.)	2	36.)	3
7.)	3	17.)	1	27.)	4	37.)	2
8.)	2	18.)	3	28.)	2	38.)	4
9.)	1	19.)	1	29.)	1	39.)	1
10.)	3	20.)	3	30.)	3	40.)	4

Paper II

Q1.

1)

1. IBM – DOS, WINDOWS 95, WINDOWS 98, WINDOWS 2000, WINDOWS XP, WINDOWS 7, WINDOWS 8 (1 marks X 1 =1)
2. Apple – Mac OS (1 marks X 1 =1)

2) Magnetic Media, Optical Media, Solid State (2 marks for all 3 answers. give ½ marks for others)

3) Plug and play, electricity needed is gained through the connection of USB port itself, Hot Pluggable or Hot Swappable, Access Speed is high, ability to connect various devices (2 marks = 1 x1 with description)

4) 237_{10} (1 marks)

$$\begin{array}{r}
 2 \overline{) 237} \\
 \underline{144} \\
 13 \\
 \underline{13} \\
 0
 \end{array}
 \quad = \quad \underline{ED}_{16} \quad (1 \text{ marks})$$

$\underbrace{144}_E$
 $\underbrace{13}_D$

[method = 1 mark, final answer 1 mark]

5) Guided Media – STP Cable, UTP Cable, Coaxial Cable, Fiber Optics
 Radiated Media (Un Guided Media) – Microwaves, Radio waves, IR waves (2 marks – 1 mark each)

6) (1 correct = ½ mark, 2 correct = 1 mark, 3 correct = 1 ½ marks, 4 correct = 2)

A	B
world wide web	www.e-thaksalawa.gov.lk
web browser	Tim Berners-Lee
e-mail	opera
URL	thaksalawa@sltnet.lk

7) $x + \bar{x}.y = x + y$ (1 marks for table with all required columns)

X	Y	\bar{x}	$\bar{x}y$	$X + \bar{x}y$	$X+y$
0	0	1	0	0	0
0	1	1	1	1	1
1	0	0	0	1	1
1	1	0	0	1	1

(1 marks for clear demarcation)

8) $(A + B) + A.\bar{B}$
(2 or 0 marks, no partial marks)

9) Begin
 Total=0
 For count=1 to 10
 If count mod 2=1 then
 Total=total+Count
 Endif
 Next Count
 Display total
 End

(2 marks = 1/2 for each correct answer)

10) A – RGB
 B – CMYK
 C – LOW
 D – HIGH (1/2 X 1 = 2 marks)

Q2.

1. C5 : C14 / C5 & C14 (2 marks)
2. = C5 * D5 (2 marks)
3. = C6 * D6 (2 marks)
4. =SUM(C5:C4) C14 (2 marks)
5. Pie Chart (2 marks)

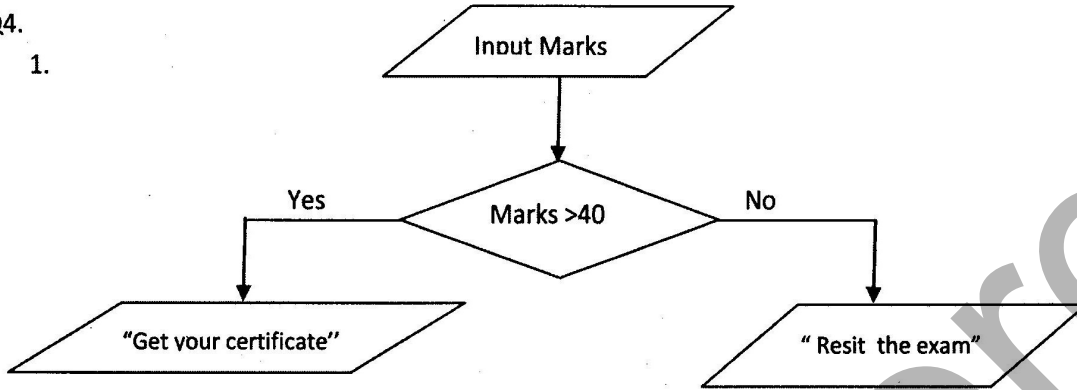
Q3.

1. Teachers' Data Table – Teacher No (1 mark)
 Subject Table – Subject No (1 mark)
2. Teacher no field use to create a relationship (1 marks)

3. ICT, Biology, Physics (3 marks)
4. Data redundancy would occur/duplication/
Difficult to add records
Difficult to update records
Difficult to delete records
Less secure

Q4.
1.

(4 marks= 2 marks for any point, give 2 marks for describing)



[Decision box with arrowheads and correct labels 1 ½ marks, ½ marks for each input and output with correct labels, ½ marks for yes/ no] = 4 marks

2. A – Yes (1/2 mark)
- B- temp (1 mark)
- C- No (1/2 mark)
- D- Yes (1/2 mark)
- E- No (1/2 mark)

1 500 .°C	} Switch On Green Bulb	(3 marks)
449 .2°C		
448 .3°C		

Q.5

1. Ability to communicate between two points over a long distance)email/video conference/chat)
Easy and quick communicability.
Connectability with someone at any time of the day.
Ability to play being over a distance
Ability to make transactions. . (2 marks = 1 for each point)
[if any acceptable answer]
2. Modem, ISP, Telephone connection/communication media
(2 marks = 1 for each correct answer)
3. DNS – Domain Name Server (2 marks)

4. TCP – Transmission Control Protocol, http, ftp, smtp, IP - Internet Protocol
(2 marks)

5. Publishing a book over the net take less time.
No printing cost.
Can be distributed to many readers over a short time.
International publicity is possible (2 marks = 1 for each correct point)
[If any acceptable answer]

Q.6

1. considered as an information system, as Information is sent out after a processing in a system.
(1 marks)

2. Technical Feasibility, Operational Feasibility, Financial Feasibility
(3 marks)

3. Interviews, Questionnaires, Observations, Documents (2 marks = ½ for each correct answer)

4. **Parallel implementation**

Less risky

Direct implementation

Comparatively less expensive. Can be introduced in a short time.

Phase implementation

Both the cost and risk is somewhat low.

[Method= 1 mark, reason= 1mark = total2 marks]

5. Lending and receiving books are easy
Accidental duplication of book information is low
Scrutiny of books is easy
annual stock taking is easy.

(2 marks = 1 for each correct answer)

[give marks for any acceptable answer]

Q7.

A) 1 mark for a health issue and 1 mark for remedial action (2 X 2 = 4)

B) 1 mark for an advantage (1 X 2) and 1 mark for brief explanation

C) 1 mark for agreeing ,2 amrks for explanation.